

WHAT IS CLAIMED IS:

1. A folder comprising:

a first cylinder having at least one first gripper for holding signatures and at least one tucker for tucking the signatures to define a first fold;

a second cylinder having at least one first jaw for holding the signatures at the first fold;

a first motor driving the at least one first gripper; and

a second motor separate from the first motor, the second motor driving the at least one tucker of the first cylinder and the at least one first jaw of the second cylinder.

2. The folder as recited in claim 1 further comprising at least one pair of cutting cylinders driven by the first motor.

3. The folder as recited in claim 2 wherein the cutting cylinders are connected by a phasing center to the first grippers.

4. The folder as recited in claim 1 wherein the tuckers and the first jaws are connected by a phasing center.

5. The folder as recited in claim 1 wherein the motors are AC synchronous motors.

6. A folder comprising:

cutting cylinders for cutting a web of material into signatures,

a first cylinder having at least one first gripper for holding the signatures at a lead edge and at least one tucker for tucking the signatures to define a first fold;

a second cylinder having at least one first jaw for holding the signatures at the

first fold and at least one second jaw for holding the signatures at a second fold;

a third cylinder having at least one second gripper for holding the signatures at the first fold and at least one second tucker for forming the second fold;

a first motor driving the cutting cylinders and the at least one first gripper;

a second motor independent from the first motor, the second motor driving the at least one tucker of the first cylinder, the at least one first jaw of the second cylinder, and the at least one second gripper of the third cylinder; and

a third motor independent from the first and second motors, the third motor driving the at the one second jaw of the second cylinder and the at least one second tucker of the third cylinder.

7. The folder as recited in claim 6 wherein the cutting cylinders are connected by a phasing center to the first grippers.

8. The folder as recited in claim 6 wherein the first tuckers and the first jaws are connected by a phasing center.

9. The folder as recited in claim 6 wherein the motors are AC synchronous motors.

10. A method for cutting and folding printed products comprising the steps of:

driving with a first motor a first loop for cutting a signature and transferring the signature to a first gripper with a first motor;

driving with a second motor a second loop for tucking the signature into a first jaw and transferring the signature to a second gripper; and

driving with a third motor a third loop for tucking the signature into a second jaw.

11. The method as recited in claim 10 further including altering a phase between at least the first and second loops, so as to set a lap or perform mode change.

12. The method as recited in claim 10 further including using a phasing center to alter a phase between a tucker in the second loop and the first jaw so as to perform a group jaw adjust.

5

13. The method as recited in claim 10 further including using a phasing center to alter a phase between a tucker and a second jaw in the third loop so as to perform a group jaw adjust.

14. A folder comprising:

a first cylinder having a first functional device and a second functional device;

10

a second cylinder having a third functional device dependent on the second functional device;

a first motor driving the first functional device; and

a second independent motor driving the second and third functional devices.